

Detail in data drives decision

Producer case study: Alison Henderson

Name:	Alison Henderson
Location:	Caltowie and Booborowie SA
Area:	1600ha owned/share-farmed
Enterprise:	800 SRS Merinos /300 stud ewes
Pastures:	400ha pasture/grazing 1,200ha cropped (cereals, beans, vetch and hay)
Soils:	Red clay loam
Rainfall:	425mm average annual

Fifth generation South Australian sheep producer Alison Henderson believes attention to detail is the key to running a profitable enterprise.

Participating in an MLA-funded 'Lotsa Lambs' Producer Demonstration Site (PDS) equipped her with detail and data to make informed decisions and maintain lambing results despite seasonal variability.

The Hendersons operate a mixed farm in the state's mid-north. Their SRS Merino enterprise includes both commercial and stud flocks, so data is an important tool to maintain breeding objectives. Their flock is founded on Baderloo bloodlines, with the Hendersons acquiring the Baderloo Stud in 2024 in addition to Hendowie Stud.

Hendowie Stud have used Australian Sheep Breeding Values (ASBVs) to make flock decisions since 2008, in conjunction with visual assessments. Selection traits include long staple and fleece weight, fat and muscle, and early growth. Specific targets are 1.3 lambs/ewe/year, 6kg wool, and lambs to grow out to 50kg within 7-8 months.



Image 1 Upper-north SA sheep producer Alison Henderson conducts preg-scanning as an ewe management strategy.

Image credit: Rachel Trengove, UNFS

"Our breeding objective is to breed a truly dual purpose, productive, balanced Merino sheep that thrives in a wide range of environments," Alison said.

"If I'm going to push for reproduction there will be sacrifices in areas such as growth but having a clear breeding objective ensures a balance."

They introduced electronic identification (eID) technology in 2018 and use AgriWebb to manage stock and BreedElite to record data such as wether lambs being born in twin or single mobs, ewe pregnancy status, visual traits and fleece weights.

Other genetic tools used include RamSelect, DNA testing in the stud flock, and the Flock Profile test for commercial sheep.

Livestock management

The Hendersons' livestock management calendar includes shearing twice a year (mid-April and mid-October). They ceased mulesing wether lambs in 2018, and all lambs the following year.

They join for five weeks in February/March, which is timed to optimise conception rates as day length shortens, so ewes lamb go onto green feed in July/August.

The Hendersons have pregnancy scanned since 2018 and automatically cull dry ewes when they are not in a flock-building phase.

“The preg-scanning technology enables us to better manage pregnant ewes, with more nutrition provided to smaller mobs of multiple-bearing ewes during pregnancy and lambing,” Alison said.

They lamb into separate twin and single paddocks so multiples can receive preferential nutrition.

Paddocks are split with electric fencing to allow for smaller twin bearing mobs of around 100 ewes, while singles are run in mobs of 150-250. Identifying and splitting singles and twins has lifted lambing by 20%, up to around 120%.

The Hendersons’ nutrition strategies are based on principles adopted from the Lifetime Ewe Management (LTEM) program, such as condition scoring and feed budgeting.

“The LTEM course included training in body condition scoring, and I have used that ever since as a crucial tool to improve lamb survival and reduce ewe mortality,” Alison said.

“We have also found our feed rations are hitting the mark – condition scores give instant feedback on what’s working.”

They match land type to enterprise where possible. Regular pasture paddocks have a medic base, and sown pastures include a rotation of vetch.

Containment feeding helps bridge the autumn feed gap. They currently feed grain out in Poly Belt troughs (at a cost of \$13-14/m).

If there is an early break, ewes go into the paddock sooner to make the most of the feed on offer, topped up with supplementary feed. However, in the dry years of this PDS (2022 and 2024), they were supplementary fed from March until just before lambing in early June.

PDS results

The site Alison allocated to the PDS was a grazing block without a cropping rotation. During lambing, exposure is an issue and Alison intends to plant

shelter belts in the future. However, in the meantime she makes use of a north-facing slope and electric fencing to keep ewes in the most sheltered area.

“Paddock characteristics contribute significantly to lambing percentage and we’ve seen lamb survival rates increase by up to 10% in paddocks with shelter and reduced exposure to weather fronts, compared to poorer lambing paddocks lacking shelter, or which are close to trainlines or busy roads,” Alison said.

After scanning and separating ewes based on pregnancy status, ewes were put into containment with supplementary feeding. For this PDS, Alison aimed for 100 or less twin bearing ewes in a mob for lambing.

Ewes are usually released from containment ten days before lambing, to help preserve feed. However, in seasons with late breaks like 2022 and 2024, supplementary feeding continues in the paddock to meet the ewes’ nutrition requirements.

The prolonged dry conditions of 2024 resulted in a very late seasonal break in June, which meant there was little or no feed available for lambing ewes and they had to rely on a full ration of supplementary feed to meet their energy requirements during the lambing period.

Survival focus

The Hendersons already had low ewe mortality (2% or less) which Alison attributes to the role of genetics, with their focus on fat and muscle, as well as the right nutrition.

So they identified twin survival through finetuning nutrition and lambing conditions as the big opportunity to make productivity gains.

As part of the PDS, Alison weighed any dead lambs to build up a picture of what was causing mortality – revealing birth weight of under 3kg was a contributing factor.

“Our goal was to get twin lamb birth weights up for greater survival,” she said.

This was a challenge with ewe lambs in particular, where we tried to balance feeding for growth without too much weight gain (which can lead to dystocia).

Alison achieved ideal condition scores of an average 3.5 at preg-scanning for all three seasons of the demonstration.

Seasonal challenges

The three-year trial presented a range of seasonal challenges.

The late break in **2022** meant there was no green feed to lamb onto, which contributed to the lambing results. Mismothering at feeders was an issue but with no feed on offer in paddocks, feeding was the only option.

There was an earlier break in **2023** with a useful 30mm in April and follow-up rains in May which delivered nutritional green feed and pasture growth to lamb onto. This removed the need to supplementary feed during lambing and reduced mismothering. However, cold/wet snaps contributed to some mortalities from exposure.

Mob size was more than 100 head in **2024** due to low feed on offer from drought conditions. With supplementary feeding, Alison managed to maintain condition scores around 3.5 from joining.

Although seasonal conditions were very different across the three years, Alison’s consistent lambing results showed how implementing a combination of best practices can help achieve production targets, despite seasonal challenges and feed gaps.

During 2024, the Hendersons also had the chance to see the impact of mob size when they purchased additional stud ewes.

While these ewes were not included in the PDS, they provided a direct comparison as both were twinning mobs with one feeder and access to scrub areas for shelter.

The smaller mob (120 ewes on 4ha) produced 168 lambs, or 140%, whereas the larger mob (170 ewes on 7ha) produced 212 lambs, or 125%.

While the stand-out observation from the PDS was the benefits of smaller mobs, Alison also observed how other factors such as lack of shelter, cold/wet snaps and genetics impacted lamb survival.

The PDS reaffirmed Alison’s focus on breeding and selecting for lamb survival characteristics, such as fat and eye muscle area, which correlate with resilience.

Infrastructure and labour

Reducing mob size for lambing required investment in temporary fencing to split up paddocks.

Alison purchased two 500m electric fence kits with energisers and posts for \$1,000, which enabled her to divide a 20ha paddock in half to run twinning ewes in smaller mobs. It took two hours to erect/deconstruct the fence.

Looking ahead, she plans on permanently splitting some of the paddocks to enable smaller mobs at lambing. Existing water points will enable these permanent areas to be reduced into smaller areas (10-15ha) with temporary electric fencing to be rotationally grazed over the growing season.

	Number of lambs	Number of ewes	% Lambing	CS at Preg scanning	Ewe mortality	Lambing % prior to preg scanning and smaller mobs
Henderson						100%
Singles 2022	68	62	110%			
Multiples 2022	150	128	117%	3.36	2.4%	
Overall %	218	190	115%			
Henderson						
Singles 2023	71	65	109%			
Multiples 2023	104	76	137%	3.25	4.9%	
Overall %	175	141	124%			
Henderson						
Singles 2024	91	88	103%			
Multiples 2024	149	116	128%	3.3	2.8%	
Overall %	240	204	118%			

Figure 1 PDS results for Henderson's trial site

Alisons's lessons learned

- Setting specific breeding objectives guides genetic selection in our flock.
- Preg-scanning technology enables targeted management of pregnant ewes.
- Running smaller mobs of multiple-bearing ewes during pregnancy and lambing helps lift lambing rates.

Additional information, resources & training

For more information on the Lotsa Lambs PDS project, including additional producer case studies:

[Lotsa Lambs - Improving Reproduction Success | Meat & Livestock Australia](#)

Making more from sheep

Making More From Sheep is a one-stop-shop for the latest sheep industry research, tools and information on husbandry and management – a package of resources, videos, apps, technologies, podcasts and fact sheets – for Australian sheep producers, developed by Australian Wool Innovation (AWI) and Meat & Livestock Australia (MLA).

www.makingmorefromsheep.com.au

BredWell FedWell Workshops

A practical, one-day workshop on how productivity and profitability can be improved through good breeding and feeding over the livestock production cycle, with a specific focus on profit drivers. Producers can use the outcomes of the workshop to develop a genetics and nutrition regime suited to their environment and markets to boost profitability.

www.mla.com.au/extension-training-and-tools/bredwell-fedwell

MLA's Genetics hub

No jargon. No complexity. Just a clear look at how better breeding values can help you accelerate your herd's or flock's productivity.

www.genetics.mla.com.au

Lifetime Ewe Management (LTEM)

The Lifetime Ewe Management (LTEM) training program was developed by the AWI-funded Lifetime Wool project and Rural Industry Skills Training (RIST) and commenced in 2005/06.

The nationally accredited Lifetime Ewe Management course allows sheep producers to monitor and demonstrate the effects of nutrition and management on a mob of their own ewes in their environment.

www.wool.com/training-extension/lifetime-ewe-management

For further information:

Rachel Trengove, Upper North Farming Systems **M** 0438 452 003 **E** rachel@unfs.com.au